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to the end a matter of appended paragraphs; and the full Conclusion appears only in the fifth and sixth editions.

So far, then, we have the familiar picture of a work which, through wealth of material, has grown under its author's hands until it outruns the appointed limit; the earlier parts are disproportionately long, the later disproportionately curtailed. But I have oversimplified; I have omitted pp. 707-725, the initial section of Part IV. These twenty pages, which are entitled *Bewusstsein und Aufmerksamkeit*, are of extraordinary significance. Their intervention, between the doctrine of idea and the doctrine of association of ideas, means that a second systematic thread, in addition to the thread of sensory integration, appears in all the following exposition.¹ We should expect a reference to it in the first, physiological Part; but there is no apperception-centre in 1873. We should expect, going further back, a reference in the Introduction; but there is no hint there of consciousness and attention. The fact is that Wundt, when he began to write the book, had no notion that he should presently introduce them. It was only when he came to work up the material of his nineteenth chapter, on the course and association of ideas,—his own experiments on reaction and complication, the results of Donders and Vierordt and the rest,—that, as the Preface informs us, he saw the possibility of further systematisation, of a theory of consciousness and attention which should, at any rate provisionally, round off an important division of physiological psychology. The opportunity thus presented was of precisely the sort that Wundt's genius welcomed. He set to work on the new (eighteenth) chapter; he found plenty of cues to back-reference, where there had been none to reference forward; and the doctrine of apperception was incorporated in the *Physiologische Psychologie*. It came in, nevertheless, by way of after-thought; and though it grew to overshadowing predominance,—the stages of that growth are another story,—we may doubt whether it was ever very firmly rooted; whether (to change the figure) it was ever really at home in the general systematic setting of the book.

E. B. T.

EXPERIMENTAL PSYCHOLOGY IN ITALY

In his inaugural lecture at the University of Palermo Professor F. U. Saffiotti sketches the development of experimental psychology in Italy.² The pioneers were three Sicilians, G. Sergi, G. Buccola and S. Corleo. Sergi as early as 1876 advocated the establishment of a laboratory; but nothing came of his efforts before 1889, when a laboratory was founded at Rome as a section of the Institute of Anthropology. Buccola, who died young, worked from 1880 to 1895 with A. Tamburini in the hospital of Reggio Emilia and with E. Morselli in the hospital and the psychiatric clinic at Turin. Corleo, who died in 1891, started in 1889 a small laboratory, afterwards allowed to lapse, at the University of Palermo. Psychological work, during these early years, was done in hospitals (at Reggio Emilia, for instance, Tamburini and G. C. Ferrari founded a laboratory in 1896) and in physiological institutes (A. Mosso at Turin, M. L. Patrizi

¹ Cf. this JOURNAL, xxxii, 1921, 116 f.

² La evoluzione della Psicologia Sperimentale in Italia, *Rivista di Psicologia*, xvi, 1920, 129 ff. Cf. this JOURNAL, xv, 1904, 515 ff; xvi, 1905, 225 ff.

at Modena); lecture-courses at universities appear to have depended altogether on the initiative of the professor (Sergi at Messina in 1878-9, Ferrari at Bologna). The first independent university laboratory was opened in Florence, 1903-4, by F. De Sarlo.

In 1905 the fifth international congress was held at Rome. A direct result was the establishment of three chairs of experimental psychology: S. De Sanctis was put in charge of the laboratory at Rome, F. Kiesow of that at Turin, and C. Colucci received the call to Naples. In 1908 a laboratory of scientific pedagogy at Crevalcore was transformed into a laboratory of pure and applied psychology and, as a communal institute of Milan, placed under the direction of Z. Treves. At the director's death in 1911 this laboratory seems to have declined; his personally owned apparatus were bequeathed to De Sanctis' laboratory at Rome,—where, curiously enough, the psychological section of the Anthropological Institute was still maintained under Sergi's guidance. In 1912 a psychological laboratory, named in honor of Treves, was started by Gonzales and Corberi in connection with the provincial hospital of Milan at Mombello. Finally, Saffiotti was called in 1918 to Palermo, and V. Benussi, apparently in the same year, to Padua.

The *Revista di Psicologia* was started by Ferrari in 1905; it is the organ of the *Società Italiana di Psicologia*, which took shape in 1911. In 1920 appeared the first numbers of the *Archivio Italiano di Psicologia*, edited by F. Kiesow of Turin and A. Gemelli, a pupil of Külpe and Kiesow, now in charge of the laboratory of the Istituto Nazionale Medico-Pedagogico at Milan. Volumes of experimental studies have been issued from Reggio Emilia, Rome, Florence and Turin.

E. B. T.

THE PSYCHOPHYSIOLOGY OF THE CONDEMNED

Dr. L. Gualino, director of an Italian war-hospital, has published a paper on the psychophysiological characters of soldiers condemned to be shot for breach of discipline.¹ Pulse is accelerated to 100 at the moment of sentence; is thereafter variable; and sinks to 60 at the place of execution. Sweating is profuse, but a thermal anaesthesia prevents reaction to cold. Salivary secretion is lessened; the voice roughens or fails; tears cannot be shed. Breathing is of the Sikorsky type: the thorax is violently filled or emptied, and the succeeding respiratory movements are superficial and hardly if at all perceptible. There is no impulse to defecate, and no tendency to frequent and scanty urination; a vesical anaesthesia leads, however, to unnoted overflow of the bladder's contents. The most characteristic physical symptom is a paresis or paralysis of the lower limbs. The face assumes a set, mask-like expression. The pupil alternates between dilatation and normality; in both conditions it reacts normally to light. There is trembling, but (the writer thinks) no true tremor; muscular contractions appear irregularly at various parts of the body, and are probably due to "multiple fibrillary myoclonias." Reflexes are never normal; they may be heightened or diminished. The various modes of general sensitivity show a loss of acuity which may reach actual anaesthesia. The specific sensitivities are rather heightened than impaired.

¹ Psicofisiologia dei fucilandi: Annotazione obiettive, *Rivista di Psicologia*, xvi, 1920, 42 ff. The editor, Professor G. C. Ferrari, adds a brief note (101 ff.) entitled *Psicologia dei moribondi*.